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(12) **United States Patent**
Engelgau

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(54) **ADJUSTABLE PEDAL ASSEMBLY WITH
ELECTRONIC THROTTLE CONTROL**

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(57) **ABSTRACT**

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-
claimer.

A vehicle control pedal apparatus (12) includes a support
(18) adapted to be mounted to a vehicle structure (20) and
an adjustable pedal assembly (22) having a pedal arm (14)
that is moveable in fore and aft directions with respect to the
support (18). A pivot (24) pivotally supports the adjustable
pedal assembly (22) with respect to the support (18) and
defines a pivot axis (26). The control pedal apparatus (12)
further includes an electronic throttle control (28) attached
to the support (18) for controlling an engine throttle (30).
The apparatus (12) is characterized by the electronic throttle
control (28) being responsive to the pivot (24) for providing
a signal (32) that corresponds to pedal arm position as the
pedal arm (14) pivots about the pivot axis (26) between rest
and applied positions. Thus, the control pedal apparatus (12)
can adjust pedal arm position in fore and aft directions
without having to move the electronic throttle control unit
(28) along with the pedal arm (14). Additionally, the elec-
tronic throttle control (28) is responsive to the pivot (24)
about which the adjustable pedal assembly (22) rotates.

(21) Appl. No.: **09/643,422**

(22) Filed: **Aug. 22, 2000**

Related U.S. Application Data

(63) Continuation of application No. 09/236,975, filed on Jan. 26,
1999, now Pat. No. 6,109,241.

(51) **Int. Cl.⁷** **F02D 1/00**

(52) **U.S. Cl.** **123/399; 74/560**

(58) **Field of Search** **123/399; 74/560**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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4 Claims, 4 Drawing Sheets

